

ABSTRACT

An electrical alternator is disclosed having a high output bobbin. The rotor assembly of the alternator includes a bobbin assembly having an expandable split or seam through a section of the bobbin assembly, a field coil that is wrapped around the bobbin assembly, and a pole assembly having an integrated hub for receiving the field coil wrapped bobbin assembly. The bobbin assembly can consist of either a single component or multiple components. The method for constructing the rotor assembly is also disclosed.